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AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the

application.

Listing of Claims:

1. (Previously presented): A system for assisting in the regeneration of depollution means

associated with oxidation catalyst-forming means, and integrated in an exhaust line of a motor

vehicle diesel engine and in which the engine is associated with common manifold means for

feeding the cylinders of the engine with fuel, and adapted at constant torque to implement a

regeneration strategy by injecting fuel into the cylinders in at least one post-injection operation,

the system comprising:

· detector means for detecting a regeneration request and thus a request for post-injection;

· detector means for detecting a state of the foot being raised on the vehicle accelerator;

· temperature acquisition means for acquiring the temperature downstream from the

catalyst-forming means;

· means for determining a maximum quantity of fuel to be injected in the post-injection

operations during the period of returning to idling following the foot being raised on the

accelerator, and on the basis of said temperature; and

· means for immediately interrupting the or each post-injection operation as soon as the

quantity of fuel injected has reached the predetermined maximum quantity.

2. (Previously presented): A system according to claim 1, wherein the depollution means

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comprise a particle filter.

3. (Previously presented): A system according to claim 1, wherein the depollution means

comprise a NOx trap.

4. (Previously presented): A system according to claim 1, wherein the fuel includes an

additive for being deposited, together with the particles with which it is mixed, on the depollution

means in order to facilitate regeneration thereof.

5. (Previously presented): A system according to claim 1, wherein the fuel includes an

additive forming a NOx trap.

6. (Previously presented): A system according to claim 1, wherein the engine is associated

with a turbocharger.

7. (New): A system according to claim 2, wherein the depollution means comprise a NOx

trap.

8. (New): A system according to claim 2, wherein the fuel includes an additive for being

deposited, together with the particles with which it is mixed, on the depollution means in order to

facilitate regeneration thereof.

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9. (New): A system according to claim 3, wherein the fuel includes an additive for being

deposited, together with the particles with which it is mixed, on the depollution means in order to

facilitate regeneration thereof.

10. (New): A system according to claim 7, wherein the fuel includes an additive for being

deposited, together with the particles with which it is mixed, on the depollution means in order to

facilitate regeneration thereof.

11. (New): A method of assisting in the regeneration of a depollution apparatus associated

with an oxidation catalyst, and integrated in an exhaust line of a motor vehicle diesel engine and in

which the engine is associated with a common manifold for feeding the cylinders of the engine

with fuel, and adapted at constant torque to implement a regeneration strategy by injecting fuel

into the cylinders in at least one post-injection operation, the method comprising:

· detecting a regeneration request and thus a request for post-injection;

· detecting a state of the foot being raised on the vehicle accelerator;

· acquiring the temperature downstream from the catalyst;

· determining a maximum quantity of fuel to be injected in the post-injection operations

during the period of returning to idling following the foot being raised on the accelerator, and on

the basis of said temperature; and

· immediately interrupting the or each post-injection operation as soon as the quantity of

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fuel injected has reached the predetermined maximum quantity.

12. (New): A method according to claim 11, wherein the depollution apparatus comprise

a particle filter.

13. (New): A system according to claim 11, wherein the depollution apparatus comprise a

NOx trap.

14. (New): A method according to claim 11, wherein the fuel includes an additive and the

additive is deposited, together with the particles with which it is mixed, on the depollution

apparatus in order to facilitate regeneration thereof.

15. (New): A method according to claim 11, wherein the fuel includes an additive forming

a NOx trap.

16. (New): A method according to claim 11, wherein the engine is associated with a

turbocharger.

17. (New): A system according to claim 12, wherein the depollution apparatus comprise a

NOx trap.

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18. (New): A method according to claim 12, wherein the fuel includes an additive and the

additive is deposited, together with the particles with which it is mixed, on the depollution

apparatus in order to facilitate regeneration thereof.

19. (New): A method according to claim 13, wherein the fuel includes an additive and the

additive is deposited, together with the particles with which it is mixed, on the depollution

apparatus in order to facilitate regeneration thereof.

20. (New): A method according to claim 17, wherein the fuel includes an additive and the

additive is deposited, together with the particles with which it is mixed, on the depollution

apparatus in order to facilitate regeneration thereof.